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DESCRIPTIONS OF SOME NEW NORTH AMERICAN CHALCIDIDÆ.

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Sub-family ENTEDONINÆ.

Astichus Forster.

(1) *Astichus arizonensis* n. sp.

♂. Length .04 inch. Steel blue, finely scaly, with a slight metallic tinge on thorax; the knees and tarsi white. Antennæ dark blue, the funicle joints excised, pedunculated, with whorls of very long hairs. Wings hyaline; veins pale, the marginal vein very long.

Hab.—Arizona.

Holcopelte Forster.

(2) *Holcopelte missouriensis* n. sp.

♀. Length .09 inch. Rather robust. Vertex of head, thorax and metathorax cupreous; face, thorax beneath and at sides, and the abdomen all blue. The scape of the antennæ, excepting at tip, and all the legs, excluding the blue coxæ, waxy white; flagellum blue-black, pilose. The head is punctate, thorax and scutellum scaly, the latter longer than wide with a median groove; metathorax with two delicate parallel keels. Abdomen petiolate, truncately rounded at apex, the second segment occupying most of its surface. Wings hyaline; veins pale brown.

Hab.—Missouri.

(3) *Holcopelte Popenovi* n. sp.

♀. Length .09 inch. All of the head, the thorax, mesopleura and coxæ bright cupreous. Head and thorax punctate; scutellum delicately scaly with a median groove. The scape of antennæ, excepting at tip, and legs yellowish white; flagellum cupreous. Abdomen as in *H.*

missouriensis, blue-black, with a slight æneous tinge near the base, in certain lights. Wings hyaline; veins pale.

Hab.—Kansas. Prof. E. A. Popenoe.

Both of the above species seem to approach quite closely to *H. albipes* Prov.

(4) *Holcopelte floridana* n. sp.

♀. Length .08 inch. All black, shining, excepting a slight æneous tinge on thorax. The trochanters, apices of femora, all tibiæ and tarsi, white. The head and thorax very delicately punctate; scutellum smooth with a median groove. Abdomen petiolate, pointed ovate, the second segment occupying most of its surface, the following segments short, but all distinctly visible. Wings hyaline; veins brown.

Hab.—Florida.

(5) *Holcopelte microgaster* n. sp.

♂. Length .05 inch. Blue-black, smooth. Scape of antennæ, coxæ and metathorax, distinctly blue. Funicie æneous. The femora, excepting tips, blue; tibiæ and tarsi white, the former with a brown blotch. Wings hyaline; veins yellow.

Hab.—Missouri.

Reared from a *Microgaster* cocoon.

Pleurotropis Forster.

(6) *Pleurotropis leucopus* n. sp.

♀. Length .06 inch. Robust, coarsely scaly. Dark blue, excepting a slight metallic tinge on the thorax; the apical tips of tibiæ and all tarsi white. Metathorax short, with delicate keels. Abdomen broadly oval, the petiole very short, second and third abdominal segments nearly equal, the following segments shorter. Wings hyaline; veins pale yellowish, postmarginal vein wanting.

Hab.—Florida.

Entedon Dalman.

(7) *Entedon albitarsis* n. sp.

♂. ♀. Length .06 to .08 inch. Head, antennæ and thorax, blue-black, vertex of head and mesothorax, æneous, distinctly scaly. Abdomen of female pointed ovate, in male linear; it, as well as the legs steel

blue; tips of tibiæ and tarsi yellowish-white. Wings hyaline; veins pale brown.

Hab.—Virginia.

(8) *Entedon arizonensis* n. sp.

♀. Length .10 inch. Head, antennæ and thorax, fiery cupreous. Head nearly smooth, vertex narrow; thorax and scutellum very coarsely scaly. Abdomen ovate, black, very highly polished, the second segment occupying nearly the whole surface. Legs blue-black, the anterior and middle pairs with metallic tingsings, the posterior pair all cupreous. Wings hyaline; veins dark brown.

Hab.—Arizona.

(9) *Entedon columbiana* n. sp.

♀. Length .07 inch. This species is very close to *E. albitarsis*, and may prove to be nothing but a variety of that species. It differs, however, in being much more robust, more coarsely punctate and in having the trochanters, extreme tips of femora, all white, as well as the tarsi, characters that will readily separate the species.

Hab.—District of Columbia.

Asecodes Forster.

(10) *Asecodes albitarsis* n. sp.

♀. Length .08 inch. Blue-black, smooth, shining. Head and thorax with a decided brassy tinge. Scutellum smooth, metallic green. Antennæ (?) seven-jointed, scape blue, flagellum metallic green, pilose. Legs, excepting the three basal joints of tarsi which are white, all blue or black. Wings hyaline; veins brown, the postmarginal vein is slightly developed.

Hab.—(?)

Omphale Haliday.

(11) *Omphale bicinctus* n. sp.

♂. Length .09 inch. Stout, robust, cyaneous, delicately ripple marked. Head large, broader than the thorax. Eyes very large, brown. Antennæ inserted low down on the face; scape slender, yellow, excepting a dusky streak above near the apex; joints of flagellum black, with long hairs. Legs, excepting coxæ and femora which are black, all yellow. Abdomen pointed ovate, slightly longer than the thorax, the second

segment the longest, but extending hardly to half the length of the abdomen; sides with some long hairs. Wings hyaline, with two transverse brown bands across the disk; veins pale brownish, the postmarginal vein longer than the stigmal.

Hab.—Florida.

Closterocerus Westwood.

(12) *Closterocerus cinctipennis* n. sp.

♂. Length .04 inch. Head, pleura, sternum, metathorax and abdomen blue; collar, mesothorax and scutellum golden green, strongly punctate. Head emarginate in front and consequently very thin antero-posteriorly. Antennæ brown-black, hairy. Legs brown, trochanters, tips of tibiæ and tarsi pale or whitish. Wings hyaline, fringed with long hairs, forewings with a brown band extending across the stigmal region and another at the apical margin.

Hab.—U. S.

Sub-family TETRASTICHINÆ.

Anozus Forster.

(13) *Anozus siphonophoræ* n. sp.

♀. Length .04 inch. Black, smooth, shining, impunctured. Head transverse, very thin antero-posteriorly, front deeply emarginated. Antennæ black, (broken). Thorax transverse, collar not visible from above; mesothorax broader than long, parapsidal furrows, deep; scutellum large, smooth, convex, without grooves, broad at base, the scapulæ being very minute; metathorax short; pleura blue-black. Abdomen sessile ovate, yellowish at base. All coxæ black; trochanters, tips of femora and tibiæ, and all tarsi, yellowish. Wings hyaline; veins pale brown, the marginal vein is very thick and about as long as the submarginal, the stigmal and postmarginal veins not developed, wanting.

Described from one specimen reared from an *Aphis*, *siphonophera* sp.

Euderus Haliday.

(14) *Euderus columbiana* n. sp.

♀. Length .10 inch. Dull brown, or bronzy green, its whole surface including the abdomen strongly confluent punctate. Head transverse, not wider than the posterior part of mesothorax and with only a slight antennal groove in front. Antennæ about as long as the thorax,

eight jointed; scape slender, yellowish brown; flagellum dark brown, about twice as long as the scape, pubescent, the pedicel shorter than the first funicle joint, the latter joint the longest, about twice as long as wide, the following joints being not much longer than wide, sub-moniliform. Thorax: collar transverse, rounded before; mesothorax with parapsidal grooves well defined; scutellum longer than wide, without grooves, rounded behind, sides parallel. Abdomen conic ovate, cylindrical, one-third longer than head and thorax together, the segments of nearly equal length. Legs dark brown, trochanters, knees, fore and middle tibiae, and all the tarsi honey-yellow, hind tibiae dusky in the middle. Wings hyaline, fringed with short ciliae; the veins brown, the marginal is twice the length of the submarginal, the stigmal short, while the postmarginal is wanting.

Hab.—Florida and District of Columbia.

Hyperteles Forster.

(15) *Hyperteles hylotomæ* n. sp.

♀. Length .08 inch. Dark blue, with a faint metallic lustre on thorax. Antennæ eight-jointed, brown, pubescent, scape brownish-yellow, the joints of the flagellum are about twice as long as thick. Collar transverse, rounded before; mesothorax with a median groove; scutellum with two parallel grooves; metathorax with three keels. Abdomen oval-rotund. Legs pale brownish-yellow, excepting the femora, which are blue for two-thirds their length; tarsi pale. Wings hyaline, pubescent, veins pale brown, the marginal vein about twice the length of the submarginal, stigmal vein longer than usual, postmarginal wanting.

Hab.—Canada.

Described from three specimens sent to me by Mr. W. Hague Harrington, who reared them from the eggs of a saw-fly *Hylotoma* sp. -

Aprostocetus Westwood.

(16) *Aprostocetus granulatus* n. sp.

♀. Length .07 inch. Black, with a coarse, scaly punctation. Antennæ, including scape, brown, pubescent. Thorax ovoid, the parapsides distinct, the collar very short, rounded before, the scutellum longer than wide with two grooves on its disk. The abdomen is pointed ovate, longer than head and thorax together, depressed above, rounded below, with an exerted ovipositor, nearly half its length. Legs dark honey-

yellow, femora and the tibiæ at base brownish. Wings hyaline, pubescent and ciliated, the pubescence brown, the venation as in *Tetrastichus*.

Hab.—Florida.

Described from one specimen.

(17) *Aprostocetus canadensis* n. sp.

♀. Length to tip of ovipositor .08 inch; ovipositor .02 inch. Dark blue, with a slight æneous tinge on the thorax. Head emarginated in front, and very thin antero-posteriorly. Eyes brown. Antennæ short, eight-jointed, brown, pilose. Collar short, transverse, rounded before; mesothorax with distinct, deep parapsidal grooves and a median groove. Abomen linear not quite twice as long as the thorax, concave above, keeled below, the ovipositor being not quite two-thirds as long as the abdomen. Legs honey-yellow, the femora, excepting at tips, blue; the tibiæ with a brown blotch in the middle, more distinct on the posterior pair; apical tarsal joints brownish. Wings hyaline, almost devoid of pubescence; the venation as in the genus *Tetrastichus*.

Hab.—Canada.

Described from two specimens sent me by Mr. W. Hague Harrington, who reared them from the thistle (?) cecidomyia, along with *Solenotus Fletcheri*, on which it may be a secondary parasite and from which it is with difficulty distinguished. *Solenotus*, however, has a larger collar and very broad, thick fore femora and tibiæ.

(18) *Aprostocetus americanus* n. sp.

♀. Length to tip of ovipositor .09 inch; length of ovipositor alone .03 inch. Smooth, shining black. Head emarginated in front and very thin antero-posteriorly. Antennæ eight-jointed, brown, the club wider than the funicle joints. Thorax: collar very short, transverse; parapsidal grooves deep, distinct and no median groove on the mesonotum. Scutellum convex, slightly longer than wide, with two parallel grooves on the disk. Abdomen sessile, long, linear, without the ovipositor about twice as long as the head and thorax together, very slightly widened just before apex and from thence acuminate and ending in a long ovipositor two-thirds its length, above depressed, below keeled with a few long hairs surrounding apex. Legs honey-yellow, the femora, excepting at tips, brown, the terminal joints of anterior and middle tarsi and the two

terminal joints of posterior tarsi, brown. Wings hyaline, with short ciliæ; venation as in *Tetrastichus*.

Hab.—U. S.

Sub-family TRICHOGRAMMINÆ.

Trichogramma Westwood.

(19) *Trichogramma acuminatum* n. sp.

Female, length .03; male, .02 inch. Honey-yellow; eyes purplish-brown; legs pale or white. The abdomen in the female is acuminate-ovate, about twice as long as the head and thorax combined, with a lateral and a ventral row of five or six brown spots. In the male the abdomen is obtuse behind, not longer than the head and thorax combined. Antennæ pilose. The wings are strongly ciliate, the fore pair broadly rounded with a dusky blotch beneath the stigma, the hind pair rather narrowed and pointed at apex.

Described from two female and one male specimens, reared from a corn-leaf, and probably parasitic on the eggs of some leaf miner.

(20) *Trichogramma nigrum*.

Female. Length .02 inch. Robust, black, polished. Antennæ short, stout, brown. Legs entirely white. The scutellum is rather high testaceous, the extreme tip white. The abdomen is sessile ovate, not longer than the head and thorax, its dorsum somewhat flat. Wings hyaline, as in *T. acuminatum* without, however, the small blotch beneath the stigma; veins brownish; tegulæ white.

Described from two specimens.

(21) *Trichogramma cercsarum* n. sp.

Female. Length nearly .04 inch. Reddish-yellow, rather slender. Eyes brown. Abdomen and posterior femora fuscous, the fore and middle femora pale brown; tibiæ and tarsi pale. The thorax is triangular in front; the abdomen not longer than the thorax but wider. Wings hyaline, as in *T. nigrum*, but with very strong violet reflections.

Described from two specimens reared from the eggs of the Membracid *Ceresa bubulus* Say.